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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,725	11/08/2005	Rudolf Bonsch	MDP-103	5175
54630 ROBERTS & 1	7590 12/29/200 ROBERTS, LLP	EXAMINER		
ATTORNEYS	AT LAW	PO, MING CHEUNG		
P.O. BOX 484 PRINCETON.	NJ 08542-0484		ART UNIT	PAPER NUMBER
11411021011,114 00012 0101			1797	
			MAIL DATE	DELIVERY MODE
			12/29/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/537,725	BONSCH ET AL.		
Examiner	Art Unit		
MING CHEUNG PO	1797		

Office Action Gammary	Examiner	Art Unit					
	MING CHEUNG PO	1797					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Estensions of time may be available under the provisions of 37 CFR 1.15 and 51K (f) MONTH's from the maining date of the communication. - Failur to reply within the size or extended period for reply will by statute. Any reply received by the Office later than three months after the mailing aemed plante term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. sely filed the mailing date of this c (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 06 Oc	ctober 2009.						
2a) This action is FINAL. 2b) ☑ This	- · · · · · · · · · · · · · · · · · · ·						
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-3 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-3</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the I	Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob-	ected to. See 37 Cl	FR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P7	ГО-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a) All b) Some * c) None of:							
 Certified copies of the priority documents 	s have been received.						
Certified copies of the priority documents	have been received in Applicati	on No					
Copies of the certified copies of the prior	ity documents have been receive	d in this National	Stage				
application from the International Bureau	(PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. Notice of Information-Disclosure-Statement(s) (FTO/SB/00) Notice of Information-Disclosure-Statement(s) (FTO/SB/00) Notice of Information-Disclosure-Statement(s) (FTO/SB/00)							
 a) information discidsure Statemant(s) (FTO/SB/08) 	JI HOUGE OF INIOITIAL F	atom Application					

Paper No(s)/Mail Date _____.

6) Other: _____.

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/6/2009 has been entered.

Office Action Summary

- This is the response to request for continued examination for application 10/537725 filed on 10/06/2009.
- Claims 1-3 are pending and have been fully considered.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over ERGUN et al. (USPGPUB 2002/).

ERGUN et al. teaches a method for producing fatty acid methyl ester in paragraphs 66-77. Saturated and unsaturated fats of vegetable and/or animal origins is mixed with alkaline solution and an alcohol, particular methanol in a mixing

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vessel to create **fatty acid methyl esters in an emulsion**. ERGUN et al. teaches that the reaction temperature may be from **40-70°C**. ERGUN et al. further teaches in paragraph 24 that the fatty acid methyl ester is cleaned after the separation of the emulsion phases.

ERGUN et al. does not seem to explicitly state subjecting the crude methyl ester later to intensively inline mixing at a temperature between 25 and 60°C with a strong acid.

However, ERGUN et al. does teach in paragraph 5 known methods include subjecting the transesterified liquid to neutralization with phosphoric acid, citric acid or other acids, whereby soap and the potassium salts of the acids are sedimented.

Although ERGUN et al. teaches in paragraph 15 that the reference method is not suited for the sedimentation method, it would be obvious to one of ordinary skill in the art to mix the fatty acid methyl ester obtained from the separation of the emulsion phases with potassium salts under the same mixing conditions as the transesterification process. ERGUN et al. teaches in paragraphs 23-27 that sedimentation phases are no longer performed mechanically but with methods using filtration. Instead of waiting for the potassium salts to settle, they would be removed by filtration.

The motivation to do so can be found in lines 55-67 of column 2. ERGUN et al. teaches that by accelerating the reaction to form an emulsion, the boundary surfaces are increased and the chemical balance state can be reached much sooner.

ERGUN et al. also does not seem to explicitly teach subjecting the ester layer to a thorough water wash and a subsequent drying. Art Unit: 1797

However, it is common knowledge what a water wash and drying may accomplish in purifying a fatty acid methyl ester. ERGUN et al. states in paragraph 5 that water may be used to absorb the soap, potassium solution and then the water phase is removed.

It would be obvious to one of ordinary skill in the art to mix the fatty acid methyl ester obtained after filtration of the potassium salts with water under the same mixing conditions as the transesterification process.

Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Response to Arguments

Applicant's arguments with respect to claims 1-3 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. PORTNOFF et al. (USPGPUB 2005/0274065 A1) teaches a process for esterification and transesterification that uses a homogeneous catalyst and high shear conditions and emulsifying reagents. .
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to MING CHEUNG PO whose telephone number is (571)270-5552. The examiner can normally be reached on 9:00 - 4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571)272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ming Cheung Po/ Patent Examiner

/Ellen M McAvoy/ Primary Examiner, Art Unit 1797